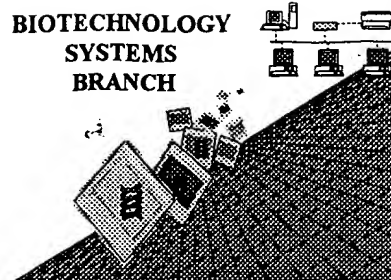


RAW SEQUENCE LISTING **ERROR REPORT**



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/824,787A
Source: O/R
Date Processed by STIC: 7/26/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
<http://www.uspto.gov/web/offices/pac/checker>

OIPE

RAW SEQUENCE LISTING

DATE: 07/26/2001

PATENT APPLICATION: US/09/824,787A

TIME: 10:25:21

Input Set : A:\seqlist_1821.0040001.txt

Output Set: N:\CRF3\07262001\I824787A.raw

PPS14

Does Not Comply
Corrected Diskette Needed

4 <110> APPLICANT: Zauderer, Maurice
 5 Evans, Elizabeth E.
 6 Borrello, Melinda A.
 8 <120> TITLE OF INVENTION: Gene Differentially Expressed in Breast and
 9 Bladder Cancer, and Encoded Polypeptides
 11 <130> FILE REFERENCE: 1821.0040001
 13 <140> CURRENT APPLICATION NUMBER: 09/824,787A
 14 <141> CURRENT FILING DATE: 2001-04-04
 16 <150> PRIOR APPLICATION NUMBER: 60/194,463
 17 <151> PRIOR FILING DATE: 2000-04-04
 19 <160> NUMBER OF SEQ ID NOS: 147
 21 <170> SOFTWARE: PatentIn Ver. 2.1
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 354
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Homo sapiens
 28 <220> FEATURE:
 29 <221> NAME/KEY: CDS
 30 <222> LOCATION: (7)..(354)
 32 <400> SEQUENCE: 1
 33 gccgcg atg agc ggg gag ccg ggg cag acg tcc gta gcg ccc cct ccc 48
 34 Met Ser Gly Glu Pro Gly Gln Thr Ser Val Ala Pro Pro Pro
 35 1 5 10
 37 gag gag gtc gag ccg ggc agt ggg gtc cgc atc gtg gtg gag tac tgt 96
 38 Glu Glu Val Glu Pro Gly Ser Gly Val Arg Ile Val Val Glu Tyr Cys
 39 15 20 25 30
 41 gaa ccc tgc ggc ttc gag gcg acc tac ctg gag ctg gcc agt gct gtg 144
 42 Glu Pro Cys Gly Phe Glu Ala Thr Tyr Leu Glu Leu Ala Ser Ala Val
 43 35 40 45
 45 aag gag cag tat ccg ggc atc gag atc gag tcg cgc ctc ggg ggc aca 192
 46 Lys Glu Gln Tyr Pro Gly Ile Glu Ile Glu Ser Arg Leu Gly Gly Thr
 47 50 55 60
 49 ggt gcc ttt gag ata gag ata aat gga cag ctg gtg ttc tcc aag ctg 240
 50 Gly Ala Phe Glu Ile Glu Ile Asn Gly Gln Leu Val Phe Ser Lys Leu
 51 65 70 75
 53 gag aat ggg ggc ttt ccc tat gag aaa gat ctc att gag gcc atc cga 288
 54 Glu Asn Gly Gly Phe Pro Tyr Glu Lys Asp Leu Ile Glu Ala Ile Arg
 55 80 85 90
 57 aga gcc agt aat gga gaa acc cta gaa aag atc acc aac agc cgt cct 336
 58 Arg Ala Ser Asn Gly Glu Thr Leu Glu Lys Ile Thr Asn Ser Arg Pro
 59 95 100 105 110
 61 ccc tgc gtc atc ctg tga 354
 62 Pro Cys Val Ile Leu
 63 115
 66 <210> SEQ ID NO: 2
 67 <211> LENGTH: 115
 68 <212> TYPE: PRT

RAW SEQUENCE LISTING

DATE: 07/26/2001

PATENT APPLICATION: US/09/824,787A

TIME: 10:25:21

Input Set : A:\seqlist_1821 0040001.txt

Output Set: N:\CRF3\07262001\I824787A.raw

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69 <213> ORGANISM: Homo sapiens
71 <400> SEQUENCE: 2
72 Met Ser Gly Glu Pro Gly Gln Thr Ser Val Ala Pro Pro Pro Glu Glu
73   1           5           10           15
74 Val Glu Pro Gly Ser Gly Val Arg Ile Val Val Glu Tyr Cys Glu Pro
75           20           25           30
76 Cys Gly Phe Glu Ala Thr Tyr Leu Glu Leu Ala Ser Ala Val Lys Glu
77           35           40           45
78 Gln Tyr Pro Gly Ile Glu Ile Glu Ser Arg Leu Gly Gly Thr Gly Ala
79           50           55           60
80 Phe Glu Ile Glu Ile Asn Gly Gln Leu Val Phe Ser Lys Leu Glu Asn
81   65           70           75           80
82 Gly Gly Phe Pro Tyr Glu Lys Asp Leu Ile Glu Ala Ile Arg Arg Ala
83           85           90           95
84 Ser Asn Gly Glu Thr Leu Glu Lys Ile Thr Asn Ser Arg Pro Pro Cys
85           100          105          110
86 Val Ile Leu
87           115
90 <210> SEQ ID NO: 3
91 <211> LENGTH: 518
92 <212> TYPE: DNA
93 <213> ORGANISM: Homo sapiens
94 <400> SEQUENCE: 3
95 gggccgcgat gagcgtagcc ggggcagacg tccgtagcgc cccctcccga ggaggtcgag 60
96 ccgggcagtg ggggtccgcat cgtggtggag tactgtgaac cctgcggctt cgaggcgacc 120
97 tacctggagc tggccagtgc tgtgaaggag cagtatccgg gcatcgagat cgagtcgcgc 180
98 ctccgggggca cagggtgcttt gagatagaga taaatggaca gctggtgttc tccaagctgg 240
99 agaatggggg ctttccctat gagaaagatc tcattgagge catccgaaga gccagtaatg 300
100 gagaaaccct agaaaagatc accaacagcc gtccctccctg cgtcaccctg tgactgcaca 360
101 ggactctggg ttccctgctct gttctggggg ccaaaccctg gtctcccttt ggtcctgctg 420
102 ggagctcccc tgccctcttc acctacttag ctcccttagca aagagacact ggccctccact 480
103 ttgccctttg ggtacaaaga aggaatagaa gattccgt 518
104
107 <210> SEQ ID NO: 4
108 <211> LENGTH: 621
109 <212> TYPE: DNA
110 <213> ORGANISM: Homo sapiens
112 <220> FEATURE:
113 <221> NAME/KEY: misc_feature
114 <222> LOCATION: (14)..(15)
115 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
117 <220> FEATURE:
118 <221> NAME/KEY: misc_feature
119 <222> LOCATION: (24)..(24)
120 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
122 <220> FEATURE:
123 <221> NAME/KEY: misc_feature
124 <222> LOCATION: (28)..(28)
125 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
127 <220> FEATURE:

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RAW SEQUENCE LISTING

DATE: 07/26/2001

PATENT APPLICATION: US/09/824,787A

TIME: 10:25:21

Input Set : A:\seqlist_1821 0040001.txt

Output Set: N:\CRF3\07262001\I824787A.raw

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128 <221> NAME/KEY: misc_feature
129 <222> LOCATION: (31)..(31)
130 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
132 <220> FEATURE:
133 <221> NAME/KEY: misc_feature
134 <222> LOCATION: (33)..(33)
135 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
137 <220> FEATURE:
138 <221> NAME/KEY: misc_feature
139 <222> LOCATION: (491)..(491)
140 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
142 <220> FEATURE:
143 <221> NAME/KEY: misc_feature
144 <222> LOCATION: (535)..(535)
145 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
147 <220> FEATURE:
148 <221> NAME/KEY: misc_feature
149 <222> LOCATION: (557)..(557)
150 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
152 <220> FEATURE:
153 <221> NAME/KEY: misc_feature
154 <222> LOCATION: (565)..(565)
155 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
157 <220> FEATURE:
158 <221> NAME/KEY: misc_feature
159 <222> LOCATION: (574)..(574)
160 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
162 <220> FEATURE:
163 <221> NAME/KEY: misc_feature
164 <222> LOCATION: (588)..(588)
165 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
167 <220> FEATURE:
168 <221> NAME/KEY: misc_feature
169 <222> LOCATION: (595)..(595)
170 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
172 <220> FEATURE:
173 <221> NAME/KEY: misc_feature
174 <222> LOCATION: (606)..(606)
175 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
177 <400> SEQUENCE: 4
178 ggggcccgag cggnngccag cgantgangg nanngccggga cagacgtccg tagcgcccc 60
179 tcccagaggag gtccagccgg gcagtggggt ccgcatcgtg gtggagtact gtgaaccctg 120
180 cggcttcgag gctacctacc tggagctggc cagtgtctgt aaggagcagt atccgggcat 180
181 cgagatcgag tcgcgcctcg ggggcacagg tgctttgaga tagagataaa tggacagctg 240
182 gtgtttctcca agctggagaa tgggggcttt ccctatgaga aagatctcat tgaggccatc 300
183 cgaagagcca gtaatggaga aaccctagaa aagatcacca acaagcccgt cctcccttgc 360
184 gtcacacctgt gacttgacaa ggactctggg gttcctgctc tgttctgggg gtccaaacct 420
185 tgggtctccct tgggtcctgc tgggaagctc cccctgcctc tttcccctaa ttagctctta 480
186 agcaaagaga ncctggcctc caatttgccc tttgggtaca aagaaggaat agaanatccg 540

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RAW SEQUENCE LISTING

DATE: 07/26/2001

PATENT APPLICATION: US/09/824,787A

TIME: 10:25:21

Input Set : A:\seqlist_1821 0040001.txt

Output Set: N:\CRF3\07262001\I824787A.raw

187 tgcccttggg gaaggañaaa aaatntccat aaanttttca ggcaactnaa acccnttcca 600
 188 ggtaantccc agaaaaccaa t 621
 191 <210> SEQ ID NO: 5
 192 <211> LENGTH: 683
 193 <212> TYPE: DNA
 194 <213> ORGANISM: Homo sapiens
 196 <220> FEATURE:
 197 <221> NAME/KEY: misc_feature
 198 <222> LOCATION: (608)..(608)
 199 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
 201 <400> SEQUENCE: 5
 202 gagccggggc agacgtccgt agcgccccct cccgaggagg tccagccggg cagtgggggc 60
 203 cgcacgtgtg tggagtactg tgaaccctgc ggcttcgagg cgacctacct ggagctggcc 120
 204 agtgctgtga aggagcagta tccgggcata gagatcgagt cgcgcctcgg gggcacaggt 180
 205 gcctttgaga tagagataaa tggacagctg gtgtttctcca agctggagaa tgggggcttt 240
 206 ccctatgaga aagatctcat tgaggccatc cgaagagcca gtaatggaga aaccctagaa 300
 207 aagatcacca acagccgtcc tccctgcgtc atcctgtgac tgcacaggac tctgggttcc 360
 208 tgctctgttc tgggggtccaa accttgggtc ccttttgggc ctgctgggag ctccccctgc 420
 209 tctctgtccc tacttagctc cttagcaaa agaccctggc ctccactttg ccttttgggt 480
 210 acaaagaagg aatagaagat tccgtggcct tgggggcagg agagagacac tctccatgaa 540
 211 cacttctcca gccacctcat acccccttcc cagggttaagt gccacgaaa gcccgatcca 600
 212 ctcttcgnct cggtataacc tgtctgatgc cacagatttt atttattctc ccctaacc 660
 213 gggcaatgtc agctattgcc agt 683
 216 <210> SEQ ID NO: 6
 217 <211> LENGTH: 490
 218 <212> TYPE: DNA
 219 <213> ORGANISM: Homo sapiens
 221 <220> FEATURE:
 222 <221> NAME/KEY: misc_feature
 223 <222> LOCATION: (17)..(17)
 224 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
 226 <220> FEATURE:
 227 <221> NAME/KEY: misc_feature
 228 <222> LOCATION: (23)..(24)
 229 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
 231 <220> FEATURE:
 232 <221> NAME/KEY: misc_feature
 233 <222> LOCATION: (65)..(67)
 234 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
 236 <220> FEATURE:
 237 <221> NAME/KEY: misc_feature
 238 <222> LOCATION: (442)..(442) (432)..(432) ← P.5
 239 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
 241 <220> FEATURE:
 242 <221> NAME/KEY: misc_feature
 243 <222> LOCATION: (454)..(454)
 244 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
 246 <220> FEATURE:
 247 <221> NAME/KEY: misc_feature

→ what about "n" at location 12?
 (P.5)

RAW SEQUENCE LISTING

DATE: 07/26/2001

PATENT APPLICATION: US/09/824,787A

TIME: 10:25:21

Input Set : A:\seqlist_1821 0040001.txt

Output Set: N:\CRF3\07262001\I824787A.raw

248 <222> LOCATION: (461)..(461)
 249 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
 251 <220> FEATURE:
 252 <221> NAME/KEY: misc_feature
 253 <222> LOCATION: (490)..(490)
 254 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
 256 <400> SEQUENCE: 6
 W--> 257 gattcggcac ggggcnagg gannggggca gacgtccgta ggcggccctc ccgaggaggt 60
 W--> 258 cgagnnnggc agtgggggtcc gcatcgtggt ggagtactgt gaaccctgcg gcttcgaggc 120
 259 gacctacctg gagctggcca gtgctgtgaa ggagcagtat ccgggcatcg agatcgagtc 180
 260 gcgcctcggg ggcacagggtg ctttgagata gagataaatg gacagctggt gttctccaag 240
 261 ctggagaatg ggggctttcc ctatgagaaa gatctcattg aggccatccg aagaagccag 300
 262 taatggagaa accctagaaa agatcaccaa caagcccgctc ctccctgcgt catcctgtga 360
 263 ctgcacagga ctctgggttc ctgctctgtt ctgggggtcca aaccttggtc tccctttggt 420
 W--> 264 cctgctggga gttcccccctg cctctttccc ctanttagct ncttagcaaa gagaccctgg 480
 W--> 265 cctccacttn 490
 268 <210> SEQ ID NO: 7
 269 <211> LENGTH: 557
 270 <212> TYPE: DNA
 271 <213> ORGANISM: Homo sapiens
 273 <220> FEATURE:
 274 <221> NAME/KEY: misc_feature
 275 <222> LOCATION: (28)..(28)
 276 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
 278 <220> FEATURE:
 279 <221> NAME/KEY: misc_feature
 280 <222> LOCATION: (504)..(504)
 281 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
 283 <220> FEATURE:
 284 <221> NAME/KEY: misc_feature
 285 <222> LOCATION: (527)..(527)
 286 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
 288 <220> FEATURE:
 289 <221> NAME/KEY: misc_feature
 290 <222> LOCATION: (545)..(545)
 291 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
 293 <400> SEQUENCE: 7
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 295 gagtactgtg aacctgcggg cttcgaggcg acctacctgg agctggccag tgctgtgaag 120
 296 gagcagtatc cgggcatcga gatcgagtcg cgcctcgggg gcacagggtc tttgagatag 180
 297 agataaatgg acagctgggtg ttctccaagc tggagaatgg gggctttccc tatgagaaag 240
 298 atctcattga ggccatccga agagccagta atggaagaaa ccctagaaaa gatcaccaac 300
 299 agccgtcctc ccttgogtea tctgtgact tgcacaggac tctgggttcc tgctctgttc 360
 300 ttgggggtcca aacctttggt ctccctttgg tctgtctggg aagctccccc tgctctttt 420
 301 cccctactta agctccttta gcaaagaaga acctgggcct tccacttttg ccctttttgg 480
 W--> 302 gtacaaaaga aggaattaga aganttcctg gggccttttg gggcaangaa gaagagaaac 540
 W--> 303 tcttncatt gaacaat 557
 306 <210> SEQ ID NO: 8
 307 <211> LENGTH: 508

Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/824,787A

DATE: 07/26/2001

TIME: 10:25:22

Input Set : A:\seqlist_1821 0040001.txt

Output Set: N:\CRF3\07262001\I824787A.raw

L:178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:265 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:515 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:525 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:579 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:580 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:619 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:625 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:694 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:698 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:700 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:715 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:734 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:789 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:840 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:845 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:899 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:900 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:905 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:906 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:932 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:933 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:935 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:959 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:965 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:1009 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:1014 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:1015 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:1016 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/824,787A

DATE: 07/26/2001

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Input Set : A:\seqlist_1821 0040001.txt

Output Set: N:\CRF3\07262001\I824787A.raw

L:1054 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28

L:1056 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28